ValueNetworks.com

Next Generation Enterprise Visualization and Analytics

Value Network Definitions

- Value Networks are roles, interactions and relationships that generate economic, social or environmental value. Any purposeful organization can be understood as a value network.
- Value network analysis (VNA) is a methodology for understanding, using, visualizing, optimizing internal and external business value networks and complex economic ecosystems.

What is the Problem?

- Today's business tools are process-centric.
- Processes failing for complex industries, products, and markets.
- Process and engineers strive for consistent, predictable outcomes by driving out variation.

In complex environments, variation is not only a given – it is desirable. Variation supports innovation and flexibility.

What is the Opportunity?

- Value networks augment and expand the process view and evoke new discoveries in the business models.
- Value networks focus on key activities, networks, roles and relationships that build and optimize network business – which are often overlooked.
- Value networks aid business execution, reduce cost and expand performance.

People are Saying...



"In several strategic situations the value network effect perspective rather than a value chain perspective has made the difference."

- President & CEO, TELENOR

Jon Fredrik Baksaas



Carol Rozwell



Dr. Henning Kagermann

"Good ideas can emerge from an inventor working solo, but more often they are a result of collaboration throughout an organization and its value network."

- VP and Distinguished Analyst, GARTNER

"Software must be designed to allow, and where possible support, rapid modification of sophisticated inter-company processes. It must be capable of mapping not only value chains but entire value networks in order to keep pace with changing conditions."

— Chairman and CEO, SAP AG

What it Provides

The ability to model and comprehend complex business relationships



- The capacity to visualize, plan, and implement organizational performance and development solutions
- A faster and flexible approach to enhancing productivity
- A non-linear yet rigorous management approach based on living systems theory and intangible asset utilization

How the Value Network Approach Gets Results

Applied Value Network Analysis

- Endorsed by thought leaders
- Tested and validated
- Integrated with financial and non-financial scorecards 1997 and value conversion
- First used in research for the book *Digital Capital*, Tapscott, Ticoll and Lowy 2000
- In use @ Boeing, Cisco, Telenor, Mayo Clinic, Rolls Royce Marine Engine, etc.
- Used to improve global action networks in Used to evaluate the impact of billions in ICT investment in Europe



Organizations are Living Systems

They have a networked pattern of organization, specifically an ecosystem of intelligent networks

- They have cognition, perception, and complex responses
- They continually renew and re-create themselves
- Re-create themselves through continual exchanges of...
 - Tangibles (goods, services, revenue)
 - Intangibles (knowledge, benefits, support)

Value Creation is the Exchange

Tangible Exchanges

Goods, services, revenue (traditional value chain). All contractual or mandated activities that directly generate or deal with revenue.

Intangible Exchanges

Knowledge

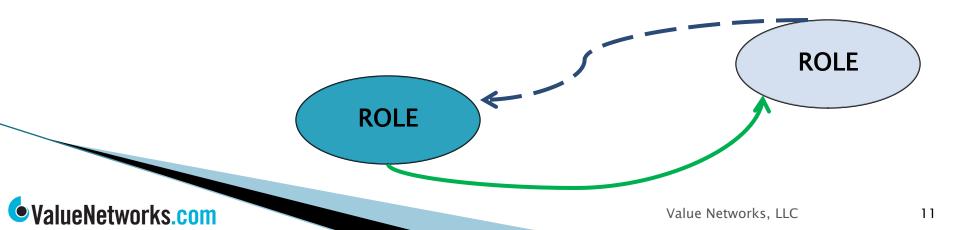
Strategic information, collaborative design, planning knowledge, process knowledge, policy development, etc.

Benefits or Favors
Benefits that go beyond actual service such as
exchanging business contacts, image enhancement,
recognition, co-branding opportunities etc.

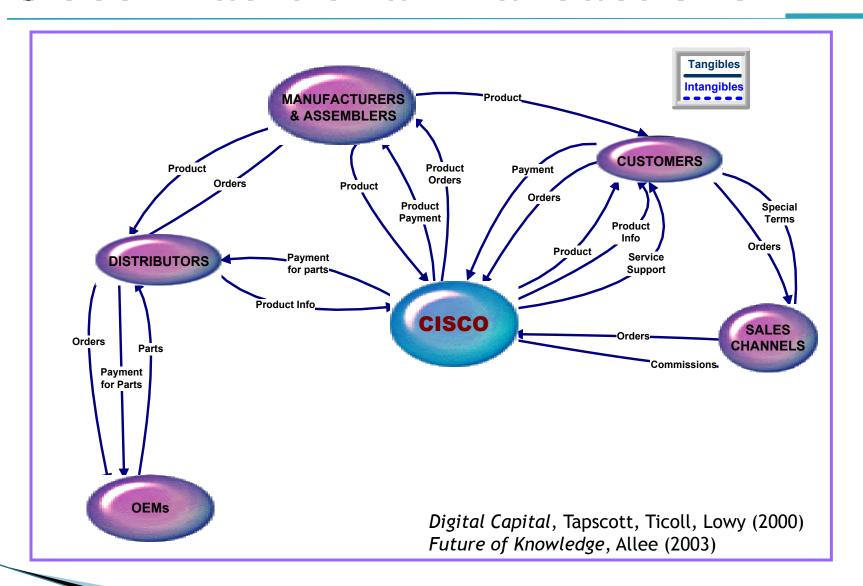


Value Network Modeling Basics

- Nodes represent participants (real people), and the roles that they play.
- Solid green lines show tangible (formal, contracctual) deliverables being transacted.
- Dashed blue lines show intangible deliverables being transacted.

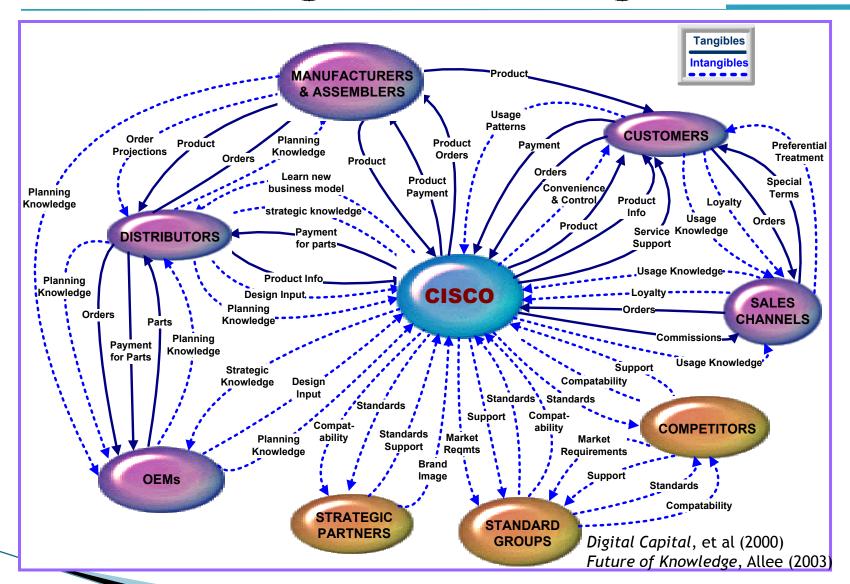


Cisco Traditional Transactions



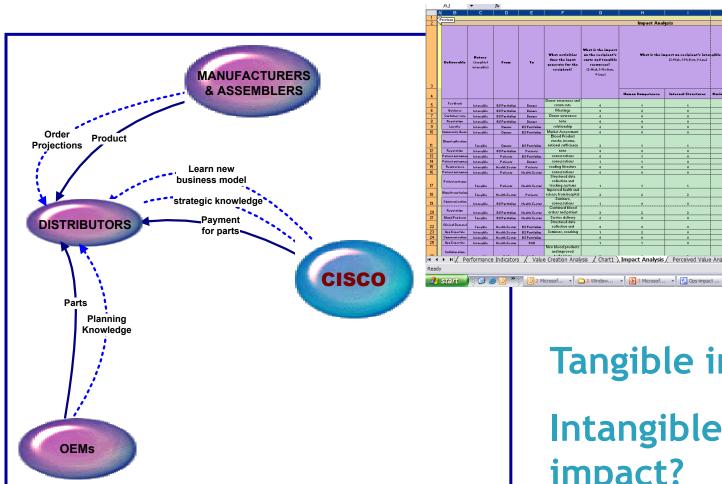


Cisco Intangible Exchanges





Value Impact Analysis



Impact Analysis

Tangible impact?

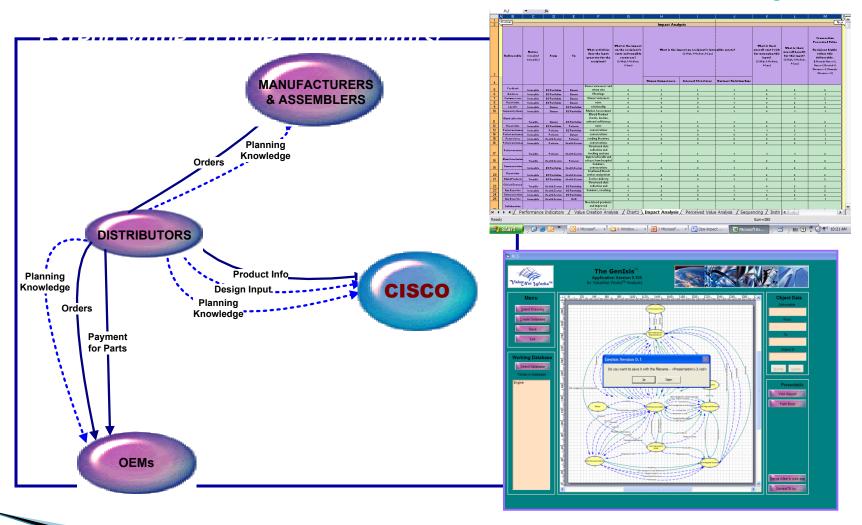
Intangible impact?

Perceived value?

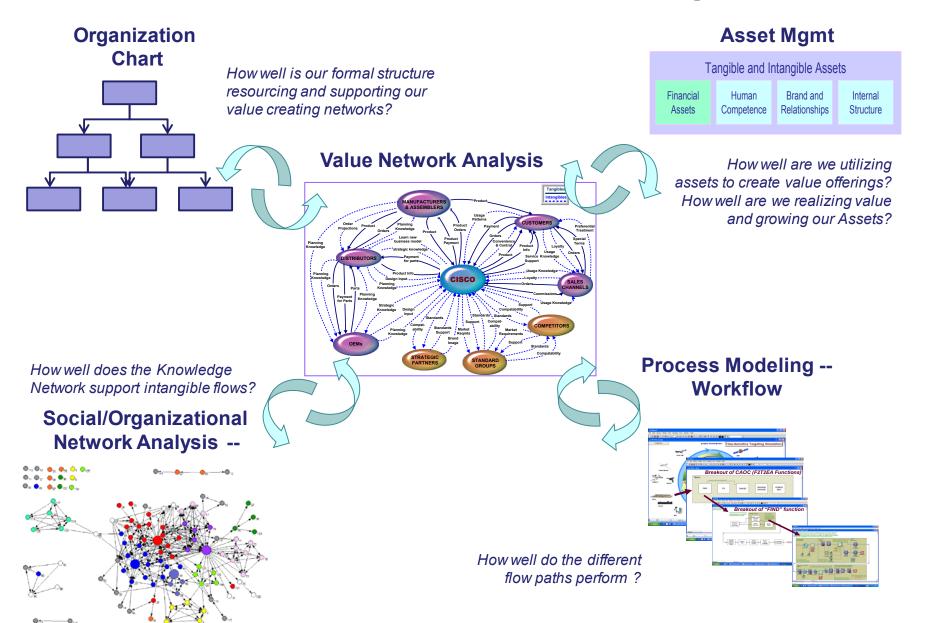


Value Creation

Value Creation Analysis



Value Networks Fill the Gap



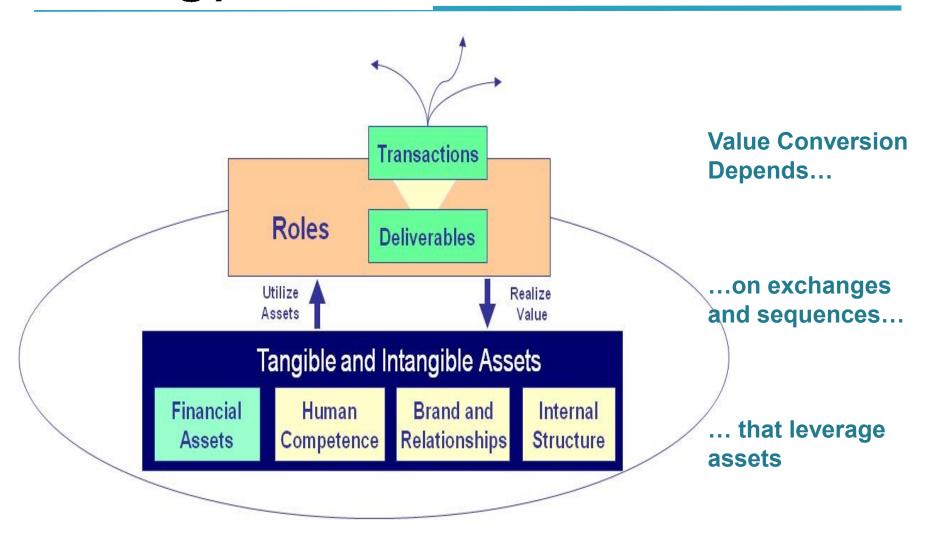
Value Network Analysis

- Fills the managerial gap between processes and the organizational chart
- Assesses current and future capability for value creation.
- Aids conversion of financial and non-financial assets, such as intellectual capital, into other forms of value.

Value Network Analysis

- Supports industry benchmarks.
- Creates robust network business and business networks.
- Provides a powerful language for collaboration.
- Works at every level of organizational and market complexity.

Strategy Model





Examples of Applied Value Network Analysis

Scalability

EU Innovation Networks GRI strategy South Africa Austrian Gov't political networks **Regional and Global Networks** e-Office partner strategy Viagra™ value network **Scottish Enterprise Business Webs & Industry Clusters Stakeholder Relationships** Cisco Customer Interaction Network **ARCBS** supplier relationships Task Networks/ York Healthcare patient support **Complex Supply Chains Knowledge Networks Boeing Fight Test & Validation Rolls Royce Marine Engine Business Units &** AgResearch (NZ) commercialization **MWH CoPs Organizations** Alzheimer's Helpline Workflow AT & T Product Launch Telenor fault handling **Openwave 2-month reorganization** Mayo Clinic, Boeing **Environment Canada funding**

Benefits

Users reconfigured internal relationships system wide in only two months

- Uncovered inefficient core processes and tasks
- Unblocked structural dams to increase knowledge flows
- Unleashed core value innovation, sustainability and resilience
- Shortened information and feedback loops



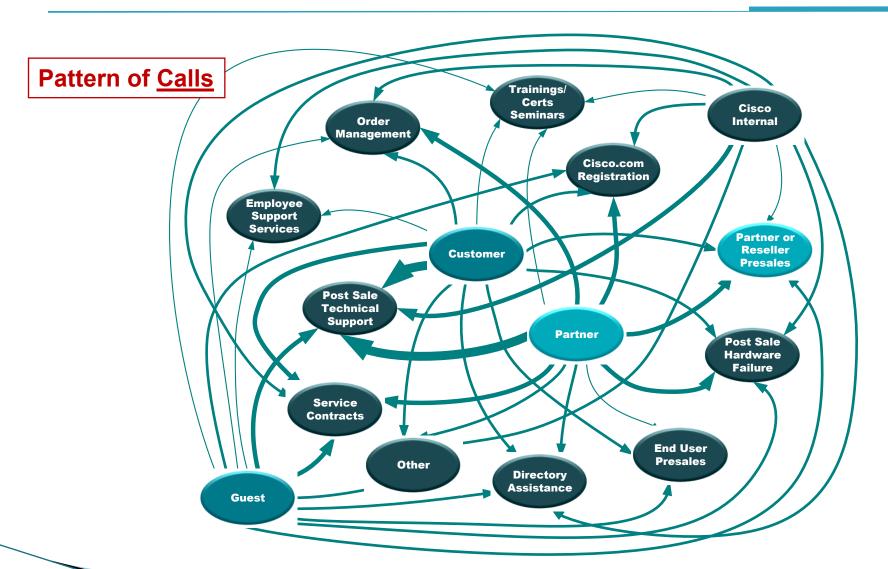
Benefits

Users reconfigured internal relationships system wide in only two months

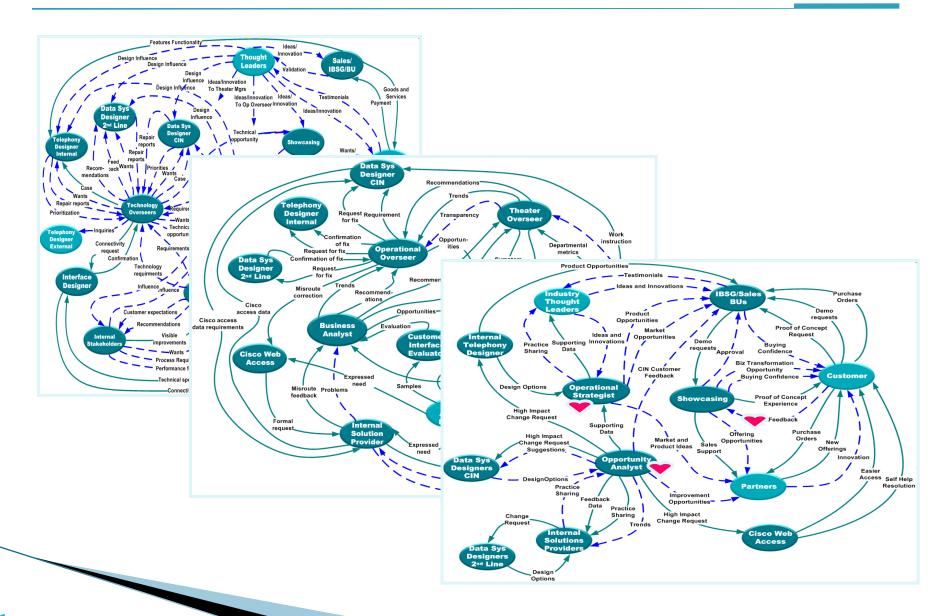
- Enabled a zero productivity hit during reconfiguration
- Deepened understanding of business issues
- Build strong consensus on need for change
- Improved inefficiencies in support services
- Developed new proactive support services
- Designed preemptive remote-based support services



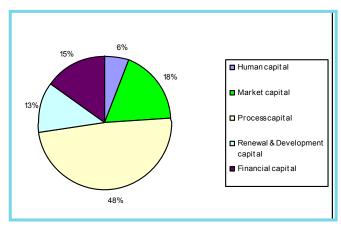
Cisco Customer Interaction



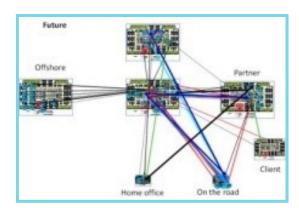
Customer Interaction Support



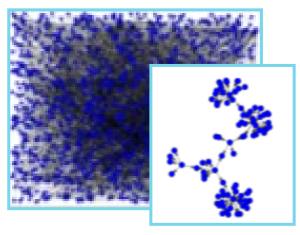
European Innovation Networks



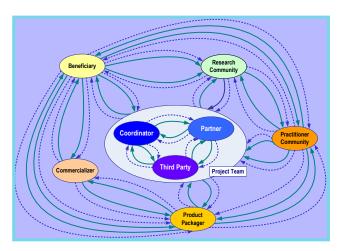
Asset Generation



Inter-Organizational
Value Networks



Organizational Networks



Network Archetypes

VNA at Boeing

- Boeing Flight Test & Validation.
- Achieved a six fold increase in productivity from testing one airplane a day to six per day.
- Organization of 3500+ people.
- Also used at Boeing in Lean projects, logistics and supply chain.

"Value Network Analysis, through visuals and conversations, helps build and strengthen the relationships and trust that are vital for people working together as a global enterprise....Now that I know the value networks methodology, I would not consider doing a six sigma, lean, or any other kind of project without first doing a VNA to provide the "systems" context for the initiative."

- Glenda Turner

Supply Chain Integrator, Value Networks, Boeing Integrated Defense Systems

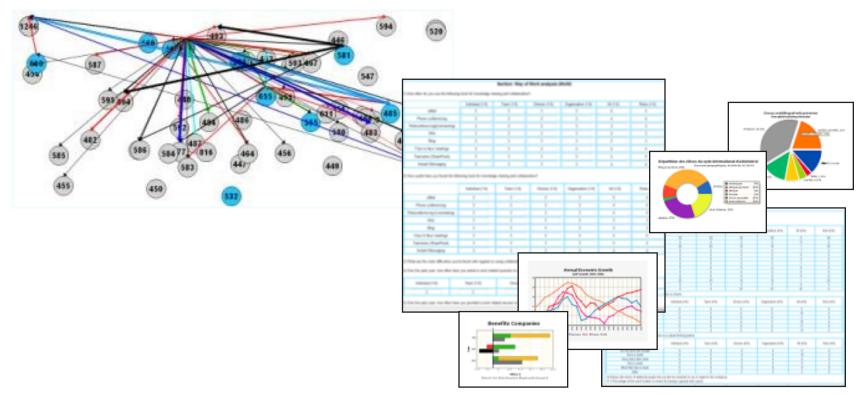


Tools for Value Network Visualization and Analysis

Understand the "As Is" Value Network

Map

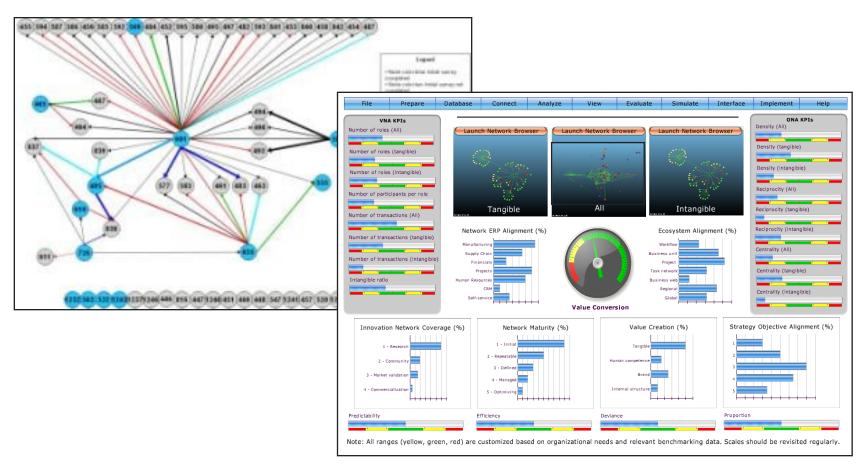




Optimize the Value Network

Optimize

Monitor



Value Network Centric Visualization

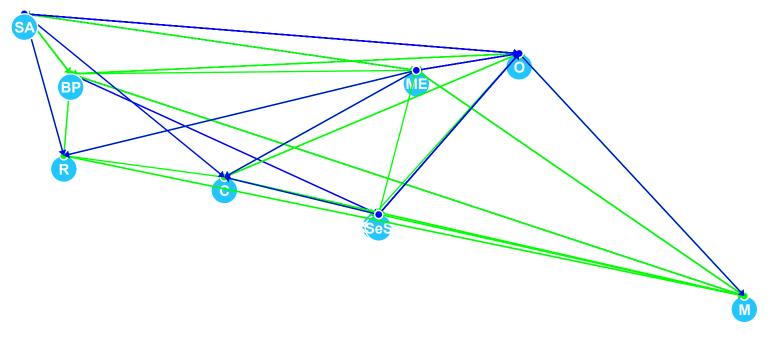
- To significantly and quickly improve performance across multiple interdependent processes (networks) at low cost by:
 - Seeing how people truly get the work done
 - Clarifying roles and deliverables
 - Making intangibles visible and servicable
 - Simplifying complicated contexts and relationships
 - Making relationships more transparent
 - Revealing opportunities by visualizing value flows
 - Easily involving everyone
 - Quickly evolving to an expanded language for workflow

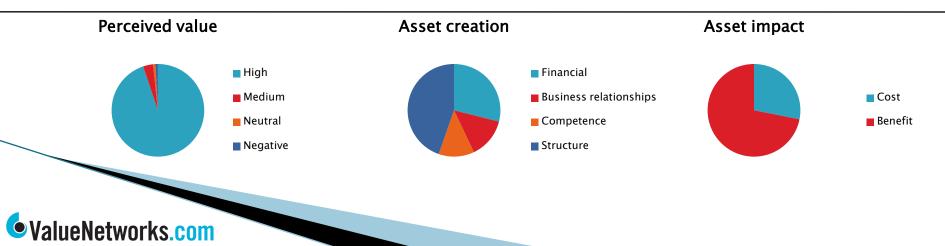


VNA Visualization

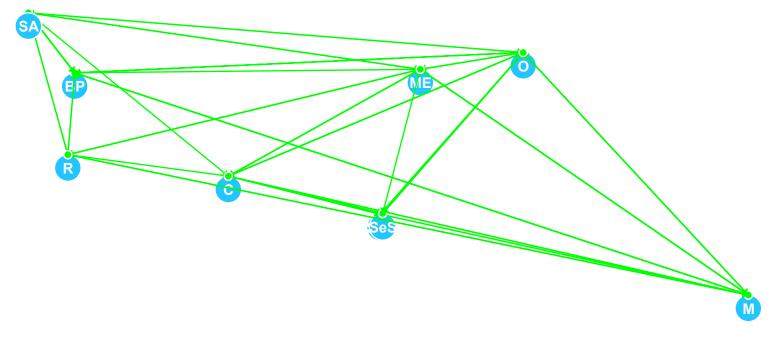
- ASP Visualization Tools
 - Animated and customized visualizations of workflow for comprehensive business networks
 - One-click visualization and animation of networks
 - Easy to use distribute and edit format
 - One-click merging of networks for aggregate evaluation
 - Advanced (immersive) visualization capability for large data sets
 - Open APIs for connecting into your IS environment
 - Open source widgets for internal customization

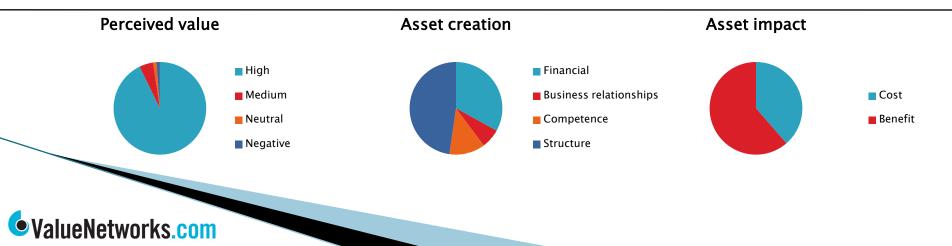
Value Network: All Transactions





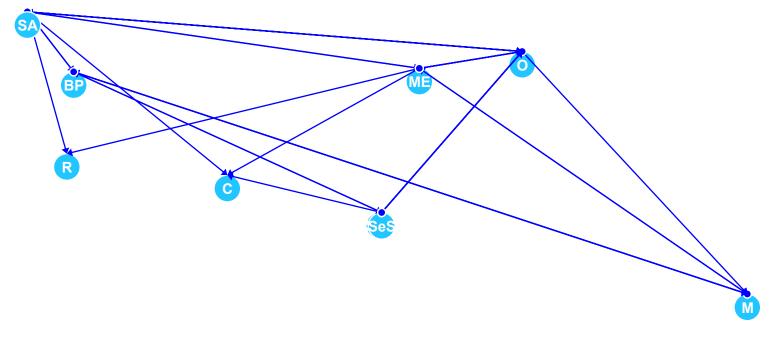
Value Network: Tangible Transactions

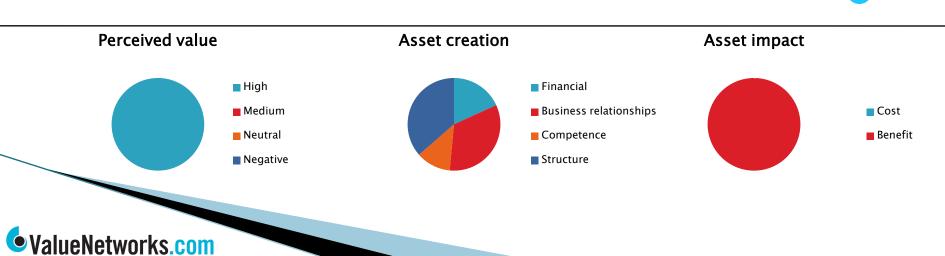




Value Network: Intangible Transactions

(Click in presentation mode to animate)





Analytical Tool Suite

ASP Solution

- Dashboard for monitoring & benchmarking performance indicators at the individual, group, and network levels
- One-click analysis reports of key network performance indicators
- Web based survey tool for network assessment
- Source data files for corporate reporting
- Providing vital linkages
 - financial and non-financial assets
 - o brand management
 - reputation

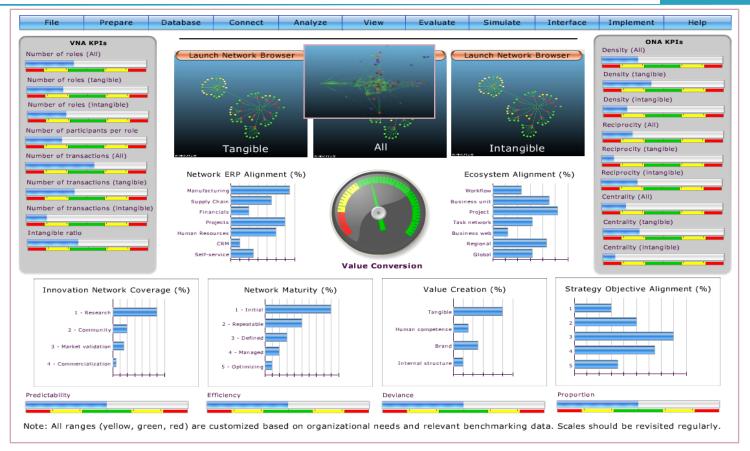


Value Network Comparison





Value Network Intelligence



- ·Resilience
- Stability
- Reciprocity
- ·Risk

- Maturity
- Innovative Capacity
- Asset Utilization
- Strategic Alignment

Coherence and Integration

Workflow



Asset Generation





Value

Network

Intelligence

Collaboration Network



Role-based Network



Network Outcomes



Enterprise SOA



Streamlined...



\ligned...



Denser...



Harmonized...



Optimized...



Networkcentric...



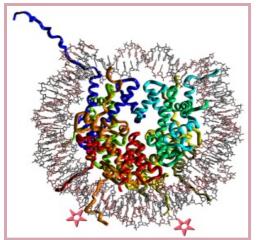


New Skills

- A new skill set provided through coaching, action learning and qualification programs:
 - Ability to create and edit workflow animations
 - Competence to use network centric performance measures for management interventions
 - Skills to use network centric tools for performance optimization
 - Capabilty to better negotiate needs and expectations
 - Language to clearly define deliverables
 - Capacity to expand accountability to intangibles

New Mindset

- A new mindset developed through master classes, scenario workshops, executive briefings and projects:
 - A network centric orientation toward workflow
 - A role based orientation for individual performance
 - A living systems based understanding of organization and network dynamics



Why the Value Network Approach Works

Value Network Analysis

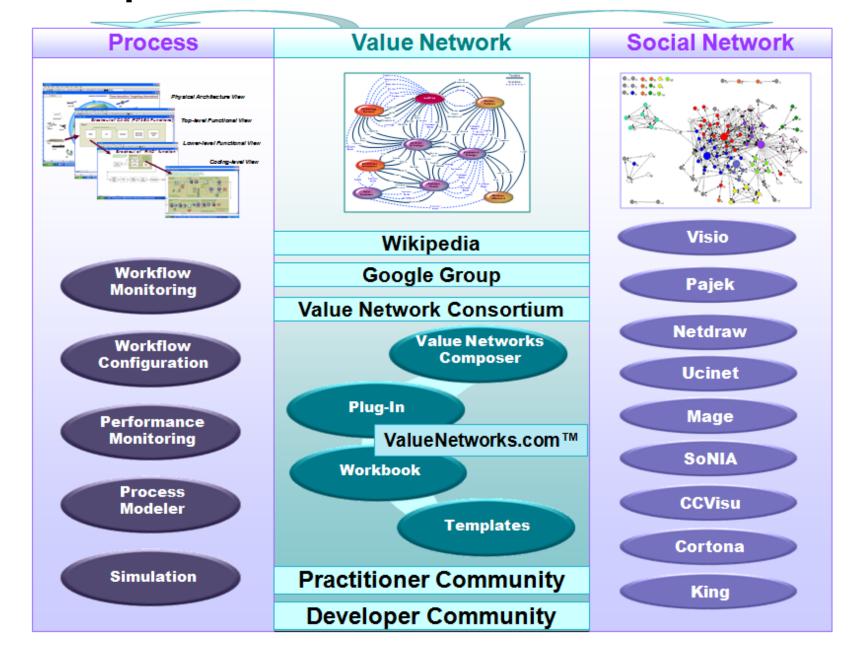
- Conceptually simple easy to learn
- Fast achieves breakthroughs in hours
- Robust links network activity to financials
- Visual -Maps and analytics
- Integrative Finds whole system patterns
- Effective Focused on people
- Comprehensive defines the business transactions, process and network



Comparison of Business Methods

Value Network Social Network **Process** Based on living systems Based on mass Based on human production principles. dynamics. theory. Shows whole system -Shows social relatio-Linear, sequential, mechanistic people, knowledge flows, and ships and interactions. processes. **Events and functions** Shows communication are central (not people Puts people and roles at the and knowledge flows. center of the action. or knowledge flows). Focus is on people -Shows business good for locating Shows how knowledge and transactions other intangibles create expertise. value. Works at multiple levels. Does not typically show Reveals dependencies in business processes. Requires an ordered business transactions environment. All links denote the Fast and robust – works at same relationship. multiple levels.

Comparison of Business Tools



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documents, presentations, downloadable open applications, and more about value networks, value network analysis, and complementary approaches...



Welcome to Open Value Networks

The Value Networks Consortium (VNC) is the global network leading value network standards, taxonomies, visualization, analytics, vocabulary, methods, open tool development, benchmark datasets and techniques. Join the open value networks discussion.

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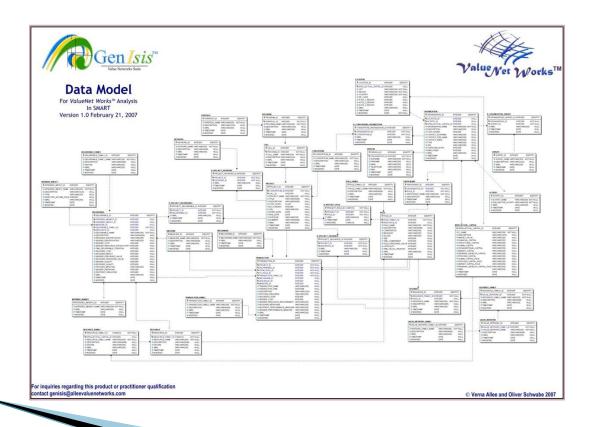


A Value Network Approach

Value Network Modeling Language

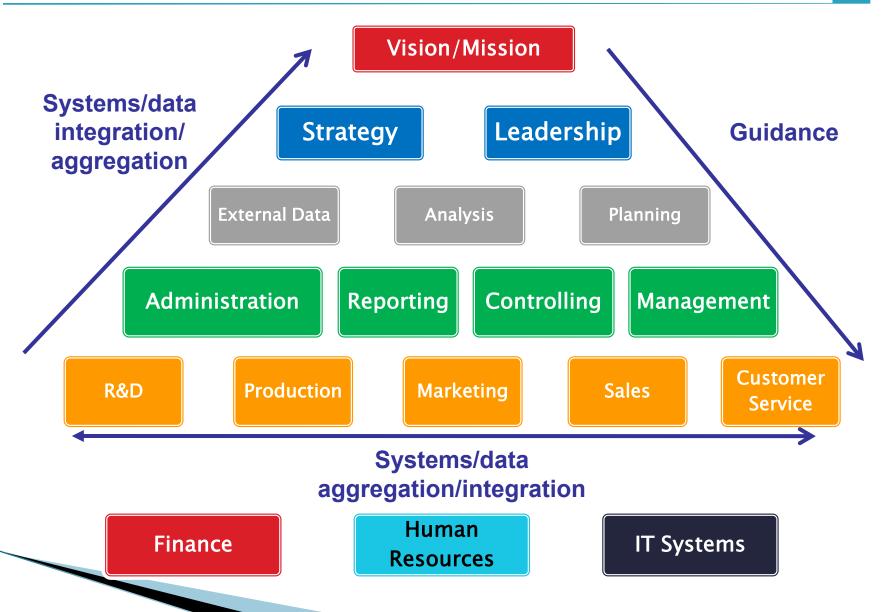






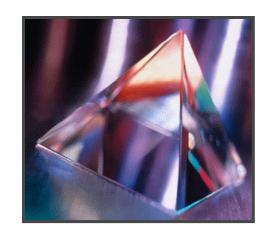


Integrates Multiple Data Sources



Tool Supported Implementation

- Educate management
- Map formal processes as value networks using available documentation
- Identify participants in value network initiatives
- Coach participants in tools and methods
- (Web) Survey all participants
- Expand, validate and enrich current state understanding

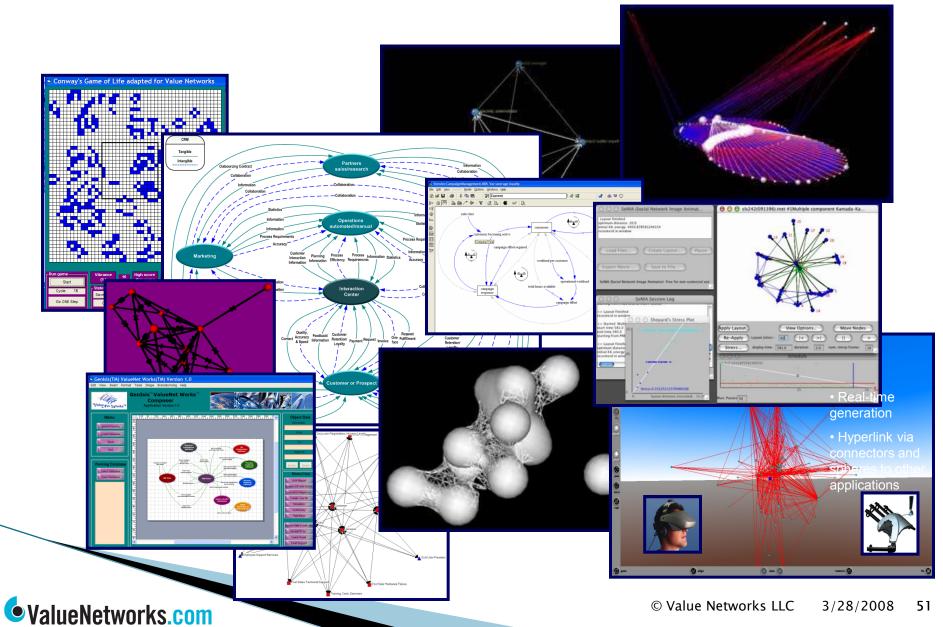


Tool Supported Implementation

- Visualize, simulate and evaluate future value network
- Optimize future state value network
- Identify change measures
- Simulate change measure impact
- Modify optimized flow paths with redesigned processes
- Implement new processs with IS support and enablement
- Monitor new process



Visualization Tools



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